

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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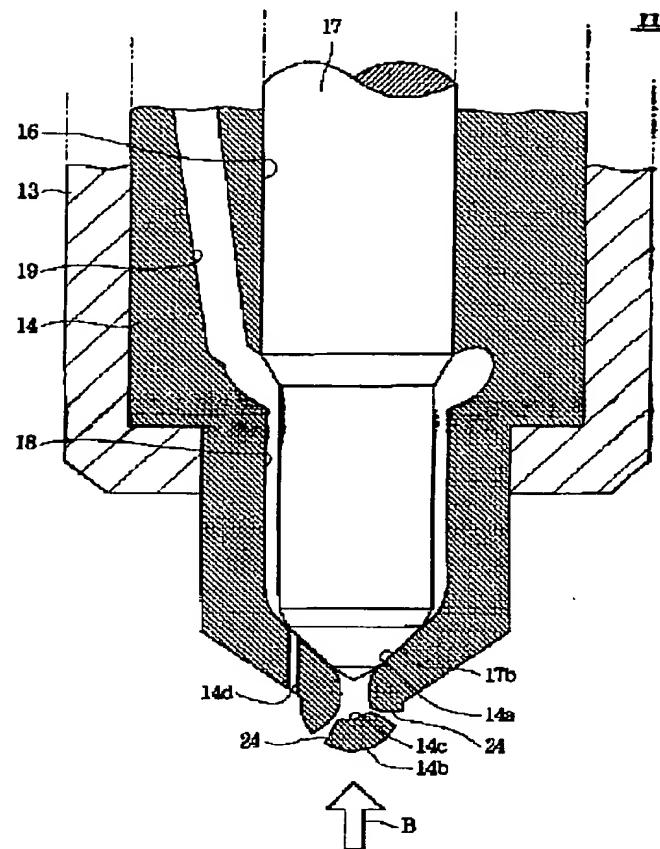
APPLICATION DATE : 13-09-94  
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APPLICANT : HINO MOTORS LTD;

INVENTOR : UEMITSU ISAO;

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TITLE : HOLE TYPE FUEL INJECTION NOZZLE



ABSTRACT : PURPOSE: To reduce the generation of harmful gas caused by ignition lag and noise caused by a sudden increase of cylinder pressure in a simple structure.

CONSTITUTION: A hole type injection nozzle comprises a nozzle body 14 and a needle valve 17, the tip of which is formed like a cone. A seat surface 14a where the needle valve is pressed, a nozzle hole 24 provided on the bulged tip part 14b, the injection hole being communicated with the inside of the tip part 14b, and a suck hole 14c where the tip of the needle valve 17 faces are formed on the nozzle body. Further, one, two or more auxiliary injection holes 14d which pierce from the seat surface to the outer surface of the nozzle body and have a hole diameter smaller than that of the nozzle hole are formed on the nozzle body.

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